SIEMENS

Datasheet

3VA1112-3GF42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=125A OVERLOAD PROTECTION IR=87,5A ...125A SHORT CIRCUIT PROTECTION II=5...10 X IN NEUTRAL PROTECTION 100% BUSBAR CONNECTION

Figure similar

Model		
product brand name		SENTRON
Product designation	-	Molded case circuit breaker
Design of the product		Line protection
Product variations		General Applications
Ground fault monitoring version		Without
Design of the auxiliary release		Without auxiliary release
Design of the auxiliary switch	-	Without
Design of the operating mechanism	-	toggle handle
Type of the driving mechanism / motor drive	-	No
Design of the overcurrent release		TM240
General technical data		·
Number of poles		4
Trip class / of the L-trip / with I2t characteristic / initial value		1
Trip class / of the L-trip / with I2t characteristic / Full- scale value		1
Electrical endurance (switching cycles)		
• at AC-1 / at 380/415 V / at 50/60 Hz		8 000
circuit-breaker / Design		3VA
Mechanical service life (switching cycles) / typical		15 000
Voltage		
Insulation voltage		
Rated value	V	800

Protection class		
Protective function of the overcurrent release		Ц
Quitabing consoits	_	
Switching capacity Switching capacity class of the circuit breaker	_	N
		~
Dissipation		
Active power loss		
• maximum	W	23.2
Electricity		
Operating current / at 45 °C / Rated value	А	125
Continuous current / Rated value / maximum	А	160
Continuous current		
Rated value	А	125
Adjustable response value current		
 of the current-dependent overload release / 	А	1
Full-scale value		
 of the instantaneous short-circuit release / initial 	А	5
value		
Net weight	g	1 200
Main circuit		
Operating voltage		
 with AC / at 50/60 Hz / Rated value 	V	690
 for DC / Rated value 	V	600
Operating current		
• at 40 °C / Rated value	А	125
• at 50 °C / Rated value	А	125
• at 55 °C / Rated value	А	122
● at 60 °C / Rated value	А	120
● at 65 °C / Rated value	А	117
• at 70 °C / Rated value	А	114
Auxiliary circuit		
Number of CO contacts		
• for auxiliary contacts		0
Suitability		
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current	٨	10
• of I-trip / Full-scale value	A	10
 for N-conductor protection / initial value 	A	100
 for N-conductor protection / Full-scale value 	A	100

Adjustable response value current / of the current-	А	0.7
dependent overload release / initial value		
Appearance		
Product details		
Product component		
Trip indicator		No
• display		No
Voltage trigger		No
 undervoltage release 		No
 undervoltage release with leading contact 		No
Product property		
 for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof 		No
Product expansion		
• optional		
— motor drive		Yes
Product function		
Product function		
 Intrinsic device protection 		Yes
 communication function 		No
 Phase failure detection 		No
 other measurement function 		No
Accessories		
Manufacturer article number / of the supplied basic switch		3VA1112-3GF42-0AA0
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)		
• at 240 V / Rated value	kA	36
• at 415 V / Rated value	kA	25
• at 440 V / Rated value	kA	16
• at 500 V / Rated value	kA	8
• at 690 V / Rated value	kA	5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	36
• at 415 V / Rated value	kA	25
• at 440 V / Rated value	kA	16
	kA	8
 at 500 V / Rated value 		
 at 500 V / Rated value at 690 V / Rated value 	kA	7

• at 240 V / Rated value		kA	75.6			
• at 415 V / Rated value		kA	52.5			
• at 690 V / Rated value		kA	7.5			
Connections						
Arrangement of electrical connectors						
 for main current circuit 			Front termin	al		
Type of connectable conductor cross-section						
 for flat-bar terminal connection / minimur 	n		12 x 0			
 for flat-bar terminal connection / maximu 	m		17 x 6.5			
Design of the electrical connection						
• for main current circuit			Lug termina	Lug terminal		
lechanical Design						
Height		mm	130			
Width		mm	101.6			
Depth		mm	70			
Mounting type			fixed mount	ing		
nvironmental conditions						
Ambient temperature						
 during operation / minimum 		°C	-25			
 during operation / maximum 		°C	70			
 during storage / minimum 		°C	-40			
 during storage / maximum 		°C	80			
Certificates						
Reference code						
• acc. to DIN EN 61346-2			Q			
• acc. to DIN EN 81346-2			Q			
General Product Approval El	MC		Declaration of	Shipping	other	
			Conformity	Approval		
ГПГ	other				other	
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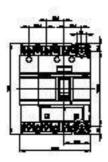
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

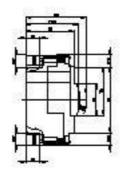
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11123GF420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11123GF420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11123GF420AA0

Tender specifications http://ausschreibungstexte.siemens.com/tiplv





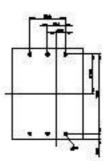




Figure similar

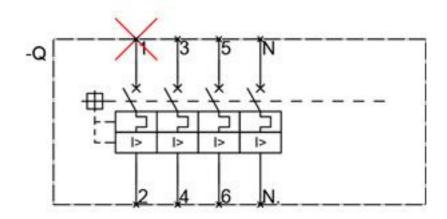


Figure similar

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